



**PROGRAMME** : NATIONAL DIPLOMA  
*ENVIRONMENTAL HEALTH*

**SUBJECT** : **ENVIRONMENTAL PLANNING 1**

**CODE** : **EPL11-1**

**DATE** : 23 NOVEMBER 2016 (FINAL EXAMINATION)

**DURATION** : 3 HRS

**WEIGHT** : 50 : 50

**TOTAL MARKS** : 150

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MODERATOR : MS C MOKOATLE

4075

NUMBER OF PAGES : 03 PAGES

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**NOTES:**

1. ALL THE QUESTIONS MUST BE ANSWERED.
  2. ANSWERS THAT ARE NOT TECHNICALLY CORRECT AND LOGICALLY STRUCTURED SHOULD BE PENALISED.
  3. ANSWERS TO QUESTIONS MUST NOT BE SPLIT. IF SO ONLY THE FIRST PART OF THE ANSWER WILL BE MARKED.
  4. STUDENTS MAY START ANSWERING ANY QUESTION FIRST.
  5. ANSWERS THAT ARE LOGICALLY CORRECT CAN BE ACCEPTED SINCE EPL 11-1 IS A PRACTICAL SUBJECT.
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**Question 1**

1.1 What is ecology?

(4x1=4)

1.2 Based on the Scope of Practice for Environmental Health Practitioners (EHPs), what is the importance of studying ecology?

(5x1= 5)

1.3 Does Environmental health practitioners have a role in preventing and controlling impacts of environmental stress? Agree or Disagree and **motivate** your answer.

(10x1=10)

1.4 Match the following terms with the correct definition.

(6x1=6)

Term	Definition
1.4.1 Individual	F. The sum of all the ecosystems established on Earth
1.4.2 Population	E. A set of ecosystems in a geographical
1.4.3 Community	B. A group of organism of the same species living in a geographical area at a given time.
1.4.4 Ecosystem	D. Group of community of living organisms interacting with the environment
1.4.5 Biome	A. Any living organism
1.4.6 Biosphere	C. All populations in a specific area at a given time

**25 Marks**

**Question 2**

2.1 Explain what is a wetland, how it functions and its importance.

(10x1=10 marks)

2.2 Discuss the impact of one of the following geochemical cycles on wetlands: Hydrogen  
OR Carbon (please choose one)

(15x1=15 marks)

**25 Marks**

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**Question 3**

*The Department came into being in 1994 after the dawn of democracy. Its roots can be traced back to 1956 when the Freedom Charter was adopted in Kliptown. The clause that says: There shall be houses, security and comfort is the founding base for the department. Also the Constitution of the Republic of South Africa (1996) state that access to housing is a basic human right, the government has to ensure that an environment conducive to progressive realisation of the right.*

3.1 Discuss the five factors which contributed to the housing crises in South Africa. (5x2=10)

3.2 Describe criteria for habitable housing for dwelling purposes. (12x1=12)

3.3 There are essentially three defining characteristics that helps us understand squatter settlements: physical, social and legal, please discuss and use relevant examples. (3x6=18)

**40 Marks**

**Question 4**

4.1 Discuss the four purposes of town planning. (4x1=4)

4.2 Briefly explain the effects of bad and uncontrolled town planning. (6)

4.3 Most streets in older South African towns are in grid or checkerboard system. List the advantages and disadvantages of this system. (2x3=6)

4.4 With practical examples explain the following functions of a town (7x2=14)

4.5 Briefly discuss how zoning affects Environmental Health functions within a local authority. (10x1=10)

**40 Marks**

**Question 5**

5.1 Out of the 17 sustainable development goals (SDGs), identify and discuss the relevance of any five (5) environmental health related SDGS, with targets where applicable, in the South African or African context.

**20 Marks**

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**Total Marks =150**